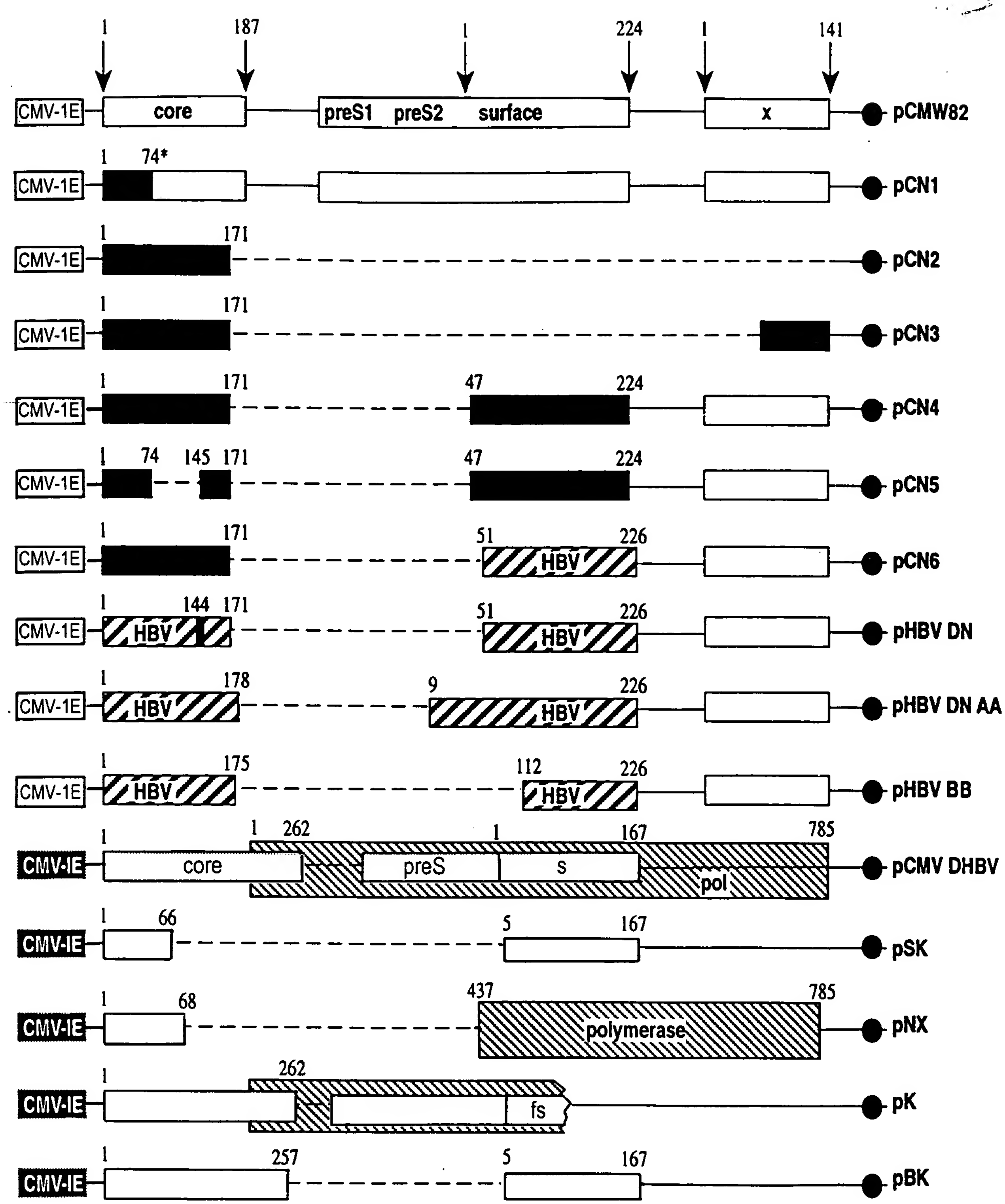

FIG. 1

1 / 1 31 / 11
ATG GAC ATA GAT CCC TAT AAA GAA TTT GGT TCA TCT TAT CAG TTG TTG AAT TTT CTT CCT
met asp ile asp pro tyr lys glu phe gly ser ser tyr gln leu leu asn phe leu pro
61 / 21 91 / 31
TTG GAC TTC TTT CCT GAC CTT AAT GCT TTG GTG GAC ACT GCT ACT GCC TTG TAT GAA GAA
leu asp phe phe pro asp leu asn ala leu val asp thr ala thr ala leu tyr glu glu
121 / 41 151 / 51
GAG CTA ACA GGT AGG GAA CAT TGC TCT CCG CAC CAT ACA GCT ATT AGA CAA GCT TTA GTA
glu leu thr gly arg glu his cys ser pro his his thr ala ile arg gln ala leu val
181 / 61 211 / 71
TGC TGG GAT GAA TTA ACT AAA TTG ATA GCT TGG ATG AGC TCT AAC ATA ACT TCT GAA CAA
cys trp asp glu leu thr lys leu ile ala trp met ser ser asn ile thr ser glu gln
241 / 81 271 / 91
GTA AGA ACA ATC ATA GTA AAT CAT GTC AAT GAT ACC TGG GGA CTT AAG GTG AGA CAA AGT
val arg thr ile ile val asn his val asn asp thr trp gly leu lys val arg gln ser
301 / 101 331 / 111
TTA TGG TTT CAT TTG TCA TGT CTC ACT TTC GGA CAA CAT ACA GTT CAA GAA TTT TTA GTA
leu trp phe his leu ser cys leu thr phe gly gln his thr val gln glu phe leu val
361 / 121 391 / 131
AGT TTT GTA GTA TGG ATC AGA ACT CCA GCT CCA TAT AGA CCT CCT AAT GCA CCC ATT CTC
ser phe val val trp ile arg thr pro ala pro tyr arg pro pro asn ala pro ile leu
421 / 141 451 / 151
TCG ACT CTT CCG GAA CAT ACA GTC ATT AGA AGA GGA GGT GCA AGA GCT TCT AGG TCC CCC
ser thr leu pro glu his thr val ile arg arg gly gly ala arg ala ser arg ser pro
481 / 161 511 / 171
AGA AGA CGC ACT CCC TCT CCT CGC AGG AGA AGA TCC CAA AAT TCG CAG TTC CAA ACT TGC
arg arg arg thr pro ser pro arg arg arg arg ser gln asn ser gln phe gln thr cys
541 / 181 571 / 191
AAA CAC TTG CCA ACC TCC TGT CCA CCA ACT TGC AAT GGC TTT CGT TGG ATG TAT CTG CGG
lys his leu pro thr ser cys pro pro thr cys asn gly phe arg trp met tyr leu arg
601 / 201 631 / 211
CGT TTT ATC ATA TAC CTA TTA GTC CTG CTG CTG TGC CTC ATC TTC TTG TTG GTT CTC CTG
arg phe ile ile tyr leu leu val leu leu leu cys leu ile phe leu leu val leu leu
661 / 221 691 / 231
GAC TGG AAA GGT TTA ATA CCT GTC TGT CCT CTT CAA CCC ACA ACA GAA ACA ACA GTC AAT
asp trp lys gly leu ile pro val cys pro leu gln pro thr thr glu thr thr val asn
721 / 241 751 / 251
TGC AGA CAA TGC ACA ATC TCT GCA CAA GAC ATG TAT ACT CCT CCT TAC TGT TGT TGT TTA
cys arg gln cys thr ile ser ala gln asp met tyr thr pro pro tyr cys cys cys leu
781 / 261 811 / 271
AAA CCT ACG GCA GGA AAT TGC ACT TGT TGG CCC ATC CCT TCA TCA TGG GCT TTA GGA AAT
lys pro thr ala gly asn cys thr cys trp pro ile pro ser ser trp ala leu gly asn
841 / 281 871 / 291
TAC CTA TGG GAG TGG GCC TTA GCT CGT CTC TCT TGG CTC AAT TTA CTA GTG CCC TTG CTT
tyr leu trp glu trp ala leu ala arg leu ser trp leu asn leu leu val pro leu leu
901 / 301 931 / 311
CAA TGG TTA GGA GGA ATT TCC CTC ATT GCG TGG TTT TTG CTT ATA TGG ATG ATT TGG TTT
gln trp leu gly gly ile ser leu ile ala trp phe leu leu ile trp met ile trp phe
961 / 321 991 / 331
TGG GGG CCC GCA CTT CTG AGC ATC TTA CCG CCA TTT ATT CCC ATA TTT GTT CTG TTT TTC
trp gly pro ala leu leu ser ile leu pro pro phe ile pro ile phe val leu phe phe
1021 / 341
TTG ATT TGG GTA TAC ATT TGA
leu ile trp val tyr ile OPA

FIG. 2

```
1    /    1                                 31   /    11
ATG GAC ATC GAC CCT TAT AAA GAA TTT GGA GCT ACT GTG GAG TTA CTC TCG TTT TTG CCT
met asp ile asp pro tyr lys glu phe gly ala thr val glu leu leu ser phe leu pro
61   /    21                                91   /    31
TCT GAC TTC TTT CCT TCA GTA CGA GAT CTT CTA GAT ACC GCC TCA GCT CTG TAT CGG GAA
ser asp phe phe pro ser val arg asp leu leu asp thr ala ser ala leu tyr arg glu
121  /    41                                151  /    51
GCC TTA GAG TCT CCT GAG CAT TGT TCA CCT CAC CAT ACT GCA CTC AGG CAA GCA ATT CTT
ala leu glu ser pro glu his cys ser pro his his thr ala leu arg gln ala ile leu
181  /    61                                211  /    71
TGC TGG GGG GAA CTA ATG ACT CTA GCT ACC TGG GTG GGT GTT AAT TTG GAA GAT CCA GCG
cys trp gly glu leu met thr leu ala thr trp val gly val asn leu glu asp pro ala
241  /    81                                271  /    91
TCT AGA GAC CTA GTA GTC AGT TAT GTC AAC ACT AAT ATG GGC CTA AAG TTC AGG CAA CTC
ser arg asp leu val val ser tyr val asn thr asn met gly leu lys phe arg gln leu
301  /   101                                331  /   111
TTG TGG TTT CAC ATT TCT TGT CTC ACT TTT GGA AGA GAA ACA GTT ATA GAG TAT TTG GTG
leu trp phe his ile ser cys leu thr phe gly arg glu thr val ile glu tyr leu val
361  /   121                                391  /   131
TCT TTC GGA GTG TGG ATT CGC ACT CCT CCA GCT TAT AGA CCA CCA AAT GCC CCT ATC CTA
ser phe gly val trp ile arg thr pro pro ala tyr arg pro pro asn ala pro ile leu
421  /   141                                451  /   151
TCA ACA CTT CCG GAA CAT ACA GTC ATT AGA AGA GGA GGT GCA AGA GCT TCT AGG TCC CCC
ser thr leu pro glu his thr val ile arg arg gly gly ala arg ala ser arg ser pro
481  /   161                                511  /   171
AGA AGA CGC ACT CCC TCT CCT CGC AGG AGA AGA TCC CAA AAT TCG CAG TCC CCA ACC TCC
arg arg arg thr pro ser pro arg arg arg arg ser gln asn ser gln ser pro thr ser
541  /   181                                571  /   191
AAT CAC TCA CCA ACC TCT TGT CCT CCA ACT TGT CCT GGT TAT CGC TGG ATG TGT CTG CGG
asn his ser pro thr ser cys pro pro thr cys pro gly tyr arg trp met cys leu arg
601  /   201                                631  /   211
CGT TTT ATC ATC TTC CTC TTC ATC CTG CTG CTA TGC CTC ATC TTC TTG TTG GTT CTT CTG
arg phe ile ile phe leu phe ile leu leu leu cys leu ile phe leu leu val leu leu
661  /   221                                691  /   231
GAC TAT CAA GGT ATG TTG CCC GTT TGT CCT CTA ATT CCA GGA TCC TCA ACA ACC AGC ACG
asp tyr gln gly met leu pro val cys pro leu ile pro gly ser ser thr thr ser thr
721  /   241                                751  /   251
GGA CCA TGC CGG ACC TGC ATG ACT ACT GCT CAA GGA ACC TCT ATG TAT CCC TCC TGT TGC
gly pro cys arg thr cys met thr thr ala gln gly thr ser met tyr pro ser cys cys
781  /   261                                811  /   271
TGT ACC AAA CCT TCG GAC GGA AAT TGC ACC TGT ATT CCC ATC CCA TCA TCC TGG GCT TTC
cys thr lys pro ser asp gly asn cys thr cys ile pro ile pro ser ser trp ala phe
841  /   281                                871  /   291
GGA AAA TTC CTA TGG GAG TGG GCC TCA GCC CGT TTC TCC TGG CTC AGT TTA CTA GTG CCA
gly lys phe leu trp glu trp ala ser ala arg phe ser trp leu ser leu leu val pro
901  /   301                                931  /   311
TTT GTT CAG TGG TTC GTA GGG CTT TCC CCC ACT GTT TGG CTT TCA GTT ATA TGG ATG ATG
phe val gln trp phe val gly leu ser pro thr val trp leu ser val ile trp met met
961  /   321                                991  /   331
TGG TAT TGG GGG CCA AGT CTG TAC AGC ATC TTG AGT CCC TTT TTA CCG CTG TTA CCA ATT
trp tyr trp gly pro ser leu tyr ser ile leu ser pro phe leu pro leu leu pro ile
1021 /   341
TTC TTT TGT CTT TGG GTA TAC ATT TAA
phe phe cys leu trp val tyr ile OCH
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FIG. 3

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1    /    1                              31   /   11
ATG GAC ATC GAC CCT TAT AAA GAA TTT GGA GCT ACT GTG GAG TTA CTC TCG TTT TTG CCT
met asp ile asp pro tyr lys glu phe gly ala thr val glu leu leu ser phe leu pro
61   /   21                              91   /   31
TCT GAC TTC TTT CCT TCA GTA CGA GAT CTT CTA GAT ACC GCC TCA GCT CTG TAT CGG GAA
ser asp phe phe pro ser val arg asp leu leu asp thr ala ser ala leu tyr arg glu
121  /   41                              151  /   51
GCC TTA GAG TCT CCT GAG CAT TGT TCA CCT CAC CAT ACT GCA CTC AGG CAA GCA ATT CTT
ala leu glu ser pro glu his cys ser pro his his thr ala leu arg gln ala ile leu
181  /   61                              211  /   71
TGC TGG GGG GAA CTA ATG ACT CTA GCT ACC TGG GTG GGT GTT AAT TTG GAA GAT CCA GCG
cys trp gly glu leu met thr leu ala thr trp val gly val asn leu glu asp pro ala
241  /   81                              271  /   91
TCT AGA GAC CTA GTA GTC AGT TAT GTC AAC ACT AAT ATG GGC CTA AAG TTC AGG CAA CTC
ser arg asp leu val val ser tyr val asn thr asn met gly leu lys phe arg gln leu
301  /  101                              331  /  111
TTG TGG TTT CAC ATT TCT TGT CTC ACT TTT GGA AGA GAA ACA GTT ATA GAG TAT TTG GTG
leu trp phe his ile ser cys leu thr phe gly arg glu thr val ile glu tyr leu val
361  /  121                              391  /  131
TCT TTC GGA GTG TGG ATT CGC ACT CCT CCA GCT TAT AGA CCA CCA AAT GCC CCT ATC CTA
ser phe gly val trp ile arg thr pro pro ala tyr arg pro pro asn ala pro ile leu
421  /  141                              451  /  151
TCA ACA CTT CCG GAG ACT ACT GTT GTT AGA CGA CGA GGC AGG TCC CCT AGA AGA AGA ACT
ser thr leu pro glu thr thr val val arg arg arg gly arg ser pro arg arg arg thr
481  /  161                              511  /  171
CCC TCG CCT CGC AGA CGA AGG TCT CAA TCG CCG CGT CGC AGA AGA TCT CAA TCT CGG CTA
pro ser pro arg arg arg arg ser gln ser pro arg arg arg arg ser gln ser arg leu
541  /  181                              571  /  191
GGA CCC CTT CTC GTG TTA CAG GCG GGG TTT TTC TTG TTG ACA AGA ATC CTC ACA ATA CCG
gly pro leu leu val leu gln ala gly phe phe leu leu thr arg ile leu thr ile pro
601  /  201                              631  /  211
CAG AGT CTA GAC TCG TGG TGG ACT TCT CTC AAT TTT CTA GGG GGA ACT ACC GTG TGT CTT
gln ser leu asp ser trp trp thr ser leu asn phe leu gly gly thr thr val cys leu
661  /  221                              691  /  231
GGC CAA AAT TCG CAG TCC CCA ACC TCC AAT CAC TCA CCA ACC TCT TGT CCT CCA ACT TGT
gly gln asn ser gln ser pro thr ser asn his ser pro thr ser cys pro pro thr cys
721  /  241                              751  /  251
CCT GGT TAT CGC TGG ATG TGT CTG CGG CGT TTT ATC ATC TTC CTC TTC ATC CTG CTG CTA
pro gly tyr arg trp met cys leu arg arg phe ile ile phe leu phe ile leu leu leu
781  /  261                              811  /  271
TGC CTC ATC TTC TTG TTG GTT CTT CTG GAC TAT CAA GGT ATG TTG CCC GTT TGT CCT CTA
cys leu ile phe leu leu val leu leu asp tyr gln gly met leu pro val cys pro leu
841  /  281                              871  /  291
ATT CCA GGA TCC TCA ACA ACC AGC ACG GGA CCA TGC CGG ACC TGC ATG ACT ACT GCT CAA
ile pro gly ser ser thr thr ser thr gly pro cys arg thr cys met thr thr ala gln
901  /  301                              931  /  311
GGA ACC TCT ATG TAT CCC TCC TGT TGC TGT ACC AAA CCT TCG GAC GGA AAT TGC ACC TGT
gly thr ser met tyr pro ser cys cys cys thr lys pro ser asp gly asn cys thr cys
961  /  321                              991  /  331
ATT CCC ATC CCA TCA TCC TGG GCT TTC GGA AAA TTC CTA TGG GAG TGG GCC TCA GCC CGT
ile pro ile pro ser ser trp ala phe gly lys phe leu trp glu trp ala ser ala arg
1021 /  341                              1051 /  351
TTC TCC TGG CTC AGT TTA CTA GTG CCA TTT GTT CAG TGG TTC GTA GGG CTT TCC CCC ACT
phe ser trp leu ser leu leu val pro phe val gln trp phe val gly leu ser pro thr
1081 /  361                              1111 /  371
GTT TGG CTT TCA GTT ATA TGG ATG ATG TGG TAT TGG GGG CCA AGT CTG TAC AGC ATC TTG
val trp leu ser val ile trp met met trp tyr trp gly pro ser leu tyr ser ile leu
1141 /  381                              1171 /  391
AGT CCC TTT TTA CCG CTG TTA CCA ATT TTC TTT TGT CTT TGG GTA TAC ATT TAA
ser pro phe leu pro leu leu pro ile phe phe cys leu trp val tyr ile OCH
```

FIG. 4

1 / 1 31 / 11
ATG GAC ATC GAC CCT TAT AAA GAA TTT GGA GCT ACT GTG GAG TTA CTC TCG TTT TTG CCT
met asp ile asp pro tyr lys glu phe gly ala thr val glu leu leu ser phe leu pro
61 / 21 91 / 31
TCT GAC TTC TTT CCT TCA GTA CGA GAT CTT CTA GAT ACC GCC TCA GCT CTG TAT CGG GAA
ser asp phe phe pro ser val arg asp leu leu asp thr ala ser ala leu tyr arg glu
121 / 41 151 / 51
GCC TTA GAG TCT CCT GAG CAT TGT TCA CCT CAC CAT ACT GCA CTC AGG CAA GCA ATT CTT
ala leu glu ser pro glu his cys ser pro his his thr ala leu arg gln ala ile leu
181 / 61 211 / 71
TGC TGG GGG GAA CTA ATG ACT CTA GCT ACC TGG GTG GGT GTT AAT TTG GAA GAT CCA GCG
cys trp gly glu leu met thr leu ala thr trp val gly val asn leu glu asp pro ala
241 / 81 271 / 91
TCT AGA GAC CTA GTA GTC AGT TAT GTC AAC ACT AAT ATG GGC CTA AAG TTC AGG CAA CTC
ser arg asp leu val val ser tyr val asn thr asn met gly leu lys phe arg gln leu
301 / 101 331 / 111
TTG TGG TTT CAC ATT TCT TGT CTC ACT TTT GGA AGA GAA ACA GTT ATA GAG TAT TTG GTG
leu trp phe his ile ser cys leu thr phe gly arg glu thr val ile glu tyr leu val
361 / 121 391 / 131
TCT TTC GGA GTG TGG ATT CGC ACT CCT CCA GCT TAT AGA CCA CCA AAT GCC CCT ATC CTA
ser phe gly val trp ile arg thr pro pro ala tyr arg pro pro asn ala pro ile leu
421 / 141 451 / 151
TCA ACA CTT CCG GAG ACT ACT GTT GTT AGA CGA CGA GGC AGG TCC CCT AGA AGA AGA ACT
ser thr leu pro glu thr thr val val arg arg arg gly arg ser pro arg arg arg thr
481 / 161 511 / 171
CCC TCG CCT CGC AGA CGA AGG TCT CAA TCG CCG CGT CGC AGA AGA TCG ATC CTC AAC AAC
pro ser pro arg arg arg arg ser gln ser pro arg arg arg arg ser ile leu asn asn
541 / 181 571 / 191
CAG CAC GGG ACC ATG CCG GAC CTG CAT GAC TAC TGC TCA AGG AAC CTC TAT GTA TCC CTC
gln his gly thr met pro asp leu his asp tyr cys ser arg asn leu tyr val ser leu
601 / 201 631 / 211
CTG TTG CTG TAC CAA ACC TTC GGA CGG AAA TTG CAC CTG TAT TCC CAT CCC ATC ATC CTG
leu leu leu tyr gln thr phe gly arg lys leu his leu tyr ser his pro ile ile leu
661 / 221 691 / 231
GGC TTT CGG AAA ATT CCT ATG GGA GTG GGC CTC AGC CCG TTT CTC CTG GCT CAG TTT ACT
gly phe arg lys ile pro met gly val gly leu ser pro phe leu leu ala gln phe thr
721 / 241 751 / 251
AGT GCC ATT TGT TCA GTG GTT CGT AGG GCT TTC CCC CAC TGT TTG GCT TTC AGT TAT ATG
ser ala ile cys ser val val arg arg ala phe pro his cys leu ala phe ser tyr met
781 / 261 811 / 271
GAT GAT GTG GTA TTG GGG GCC AAG TCT GTA CAG CAT CTT GAG TCC CTT TTT ACC GCT GTT
asp asp val val leu gly ala lys ser val gln his leu glu ser leu phe thr ala val
841 / 281 871 / 291
ACC AAT TTT CTT TTG TCT TTG GGT ATA CAT TTA
thr asn phe leu leu ser leu gly ile his leu

FIG. 5

1 / 1 31 / 11
ATG GAT ATC AAT GCT TCT AGA GCC TTA GCC AAT GTG TAT GAT CTA CCA GAT GAT TTC TTT
met asp ile asn ala ser arg ala leu ala asn val tyr asp leu pro asp asp phe phe
61 / 21 91 / 31
CCA AAA ATA GAT GAT CTT GTT AGA GAT GCT AAA GAC GCT TTA GAG CCT TAT TGG AAA TCA
pro lys ile asp asp leu val arg asp ala lys asp ala leu glu pro tyr trp lys ser
121 / 41 151 / 51
GAT TCA ATA AAG AAA CAT GTT TTG ATT GCA ACT CAC TTT GTG GAT CTT ATT GAA GAC TTC
asp ser ile lys lys his val leu ile ala thr his phe val asp leu ile glu asp phe
181 / 61 211 / 71
TGG CAG ACT ACA CAG GGC ATG CAT GAA ATA GCC GAA TCA TTA AGA GCT GTT ATA CCT CCC
trp gln thr thr gln gly met his glu ile ala glu ser leu arg ala val ile pro pro
241 / 81 271 / 91
ACT ACT ACT CCT GTT CCA CCG GGT TAT CTT ATT CAG CAC GAA GAA GCT GAA GAG ATA CCT
thr thr thr pro val pro pro gly tyr leu ile gln his glu glu ala glu glu ile pro
301 / 101 331 / 111
TTG GGA GAT TTA TTT AAA CAC CAA GAA GAA AGG ATA GTG AGT TTC CAA CCC GAC TAT CCG
leu gly asp leu phe lys his gln glu glu arg ile val ser phe gln pro asp tyr pro
361 / 121 391 / 131
ATT ACG GCT AGA ATT CAT GCT CAT TTG AAA GCT TAT GCA AAA ATT AAC GAG GAA TCA CTG
ile thr ala arg ile his ala his leu lys ala tyr ala lys ile asn glu glu ser leu
421 / 141 451 / 151
GAT AGG GCT AGG AGA TTG CTT TGG TGG CAT TAC AAC TGT TTA CTG TGG GGA GAA GCT CAA
asp arg ala arg arg leu leu trp trp his tyr asn cys leu leu trp gly glu ala gln
481 / 161 511 / 171
GTT ACT AAC TAT ATT TCT CGC TTG CGT ACT TGG TTG TCA ACT CCT GAG AAA TAT AGA GGT
val thr asn tyr ile ser arg leu arg thr trp leu ser thr pro glu lys tyr arg gly
541 / 181 571 / 191
AGA GAT GCC CCG ACC ATT GAA GCA ATC ACT AGA CCA ATC CAG GTG GCT CAG GGA GGC CGA
arg asp ala pro thr ile glu ala ile thr arg pro ile gln val ala gln gly gly arg
601 / 201 631 / 211
AAA ACA ACT ACG GGT ACT AGA AAA CCT CGT GGA CTC GAA CCT AGA AGA AGA AAA GTT AAA
lys thr thr thr gly thr arg lys pro arg gly leu glu pro arg arg arg lys val lys
661 / 221 691 / 231
ACC ACA GTT GTC TAT GGG AGA AGA CGT TCA AAG TCC CGG GGA AGG AGA GCC CCT ACA CCC
thr thr val val tyr gly arg arg arg ser lys ser arg gly arg arg ala pro thr pro
721 / 241 751 / 251
CAA CGT GCG GGC TCC CCT CTC CCA CGT AGT TCG AGC AGC CAC CAT AGA TCC TTC GGG GGA
gln arg ala gly ser pro leu pro arg ser ser ser ser his his arg ser phe gly gly
781 / 261 811 / 271
ATA CTA GCT GGC CTA ATC GGA TTA CTG GTA AGC TTT TTC TTG TTG ATA AAA ATT CTA GAA
ile leu ala gly leu ile gly leu leu val ser phe phe leu leu ile lys ile leu glu
841 / 281 871 / 291
ATA CTG AGG AGG CTA GAT TGG TGG TGG ATT TCT CTC AGT TCT CCA AAG GGA AAA ATG CAA
ile leu arg arg leu asp trp trp trp ile ser leu ser ser pro lys gly lys met gln
901 / 301 931 / 311
TGC GCT TTC CAA GAT ACT GGA GCC CAA ATC TCT CCA CAT TAC GTC GGA TCT TGC CCG TGG
cys ala phe gln asp thr gly ala gln ile ser pro his tyr val gly ser cys pro trp
961 / 321 991 / 331
GGA TGC CCA GGA TTT CTT TGG ACC TAT CTC AGG CTT TTT ATC ATC TTC CTC TTA ATC CTG
gly cys pro gly phe leu trp thr tyr leu arg leu phe ile ile phe leu leu ile leu
1021 / 341 1051 / 351
CTA GTA GCA GCA GGC TTG CTG TAT CTG ACG GAC AAC GGG TCT ACT ATT TTA GGA AAG CTC
leu val ala ala gly leu leu tyr leu thr asp asn gly ser thr ile leu gly lys leu
1081 / 361 1111 / 371
CAA TGG GCG TCG GTC TCA GCC CTT TTC TCC TCC ATC TCT TCA CTA CTG CCC TCG GAT CCG
gln trp ala ser val ser ala leu phe ser ser ile ser ser leu leu pro ser asp pro
1141 / 381 1171 / 391
AAA TCT CTC GTC GCT TTA ACG TTT GGA CTT TCA CTT ATA TGG ATG ACT TCC TCC TCT GCC
lys ser leu val ala leu thr phe gly leu ser leu ile trp met thr ser ser ser ala
1201 / 401 1231 / 411
ACC CAA ACG CTC GTC ACC TTA ACG CAA TTA GCC ACG CTG TCT GCT CTT TTT TAC AAG AGC
thr gln thr leu val thr leu thr gln leu ala thr leu ser ala leu phe tyr lys ser
1261 / 421
TAG

FIG. 6

```
ATG GAC ATC GAC CCT TAT AAA GAA TTT GGA GCT ACT GTC GAG TTA CTC    48
Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu
 1               5                  10                  15

TCG TTT TTG CCT TCT GAC TTC TTT CCT TCA GTA CGA GAT CTT CTA GAT    96
Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp
            20                  25                  30

ACC GCC TCA GCT CTG TAT CGG GAA GCC TTA GAG TCT CCT GAG CAT TGT   144
Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys
        35                  40                  45

TCA CCT CAC CAT ACT GCA CTC AGG CAA GCA ATT CTT TGC TGG GGG GAA   192
Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu
    50                  55                  60

CTA ATG ACT CTA GCT ACC TGG GTG GGT GTT AAT TTG GAA GAT CCA GCG   240
Leu Met Thr Leu Ala Thr Trp Val Gly Val Asn Leu Glu Asp Pro Ala
65                  70                  75                  80

TCT AGA GAC CTA GTA GTC AGT TAT GTC AAC ACT AAT ATG GGC CTA AAG   288
Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys
                85                  90                  95

TTC AGG CAA CTC TTG TGG TTT CAC ATT TCT TGT CTC ACT TTT GGA ACA   336
Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Thr
            100                 105                 110

GAA ACA GTT ATA GAG TAT TTG GTG TCT TTC GGA GTG TGG ATT CGC ACT   384
Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr
        115                 120                 125

CCT CCA GCT TAT AGA CCA CCA AAT GCC CCT ATC CTA TCA ACA CTT CCG   432
Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro
    130                 135                 140

GAG ACT ACT GTT GTT AGA CGA CCA GGC AGG TCC CCT AGA AGA AGA ACT   480
Glu Thr Thr Val Val Arg Arg Pro Gly Arg Ser Pro Arg Arg Arg Thr
145                 150                 155                 160

CCC TCG CCT CGC AGA CGA AGG TCT CAA TCG CCC CGT CGC AGA AGA TCT   528
Pro Ser Pro Arg Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg Arg Ser
                165                 170                 175

CAA TCT CGG GAA TCT CAA TGT TAG                                   552
Gln Ser Arg Glu Ser Gln Cys
            180
```

FIG. 7

ATG GAG AAC ATC ACA TCA GGA TTC CTA GGA CCC CTT CTC GTG TTA CAG 48
Met Glu Asn Ile Thr Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln
1 5 10 15

GCG GGG TTT TTC TTG TTG ACA AGA ATC CTC ACA ATA CCC CAG AGT CTA 96
Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
20 25 30

GAC TCG TGG TGG ACT TCT CTC AAT TTT CTA GGG GGA ACT ACC GTG TGT 144
Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Thr Thr Val Cys
35 40 45

CTT GGC CAA AAT TCG CAG TCC CCA ACC TCC AAT CAC TCA CCA ACC TCT 192
Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser Asn His Ser Pro Thr Ser
50 55 60

TGT CCT CCA ACT TGT CCT GGT TAT CGC TGG ATG TGT CTG CGG CGT TTT 240
Cys Pro Pro Thr Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe
65 70 75 80

ATC ATC TTC CTC TTC ATC CTG CTG CTA TGC CTC ATC TTC TTG TTG GTT 288
Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
85 90 95

CTT CTG GAC TAT CAA GGT ATG TTG CCC GTT TGT CCT CTA ATT CCA GGA 336
Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Ile Pro Gly
100 105 110

TCC TCA ACA ACC AGC ACG GGA CCA TGC CGG ACC TGC ATG ACT ACT GCT 384
Ser Ser Thr Thr Ser Thr Gly Pro Cys Arg Thr Cys Met Thr Thr Ala
115 120 125

CAA GGA ACC TCT ATG TAT CCC TCC TGT TGC TGT ACC AAA CCT TCG GAC 432
Gln Gly Thr Ser Met Tyr Pro Ser Cys Cys Cys Thr Lys Pro Ser Asp
130 135 140

GGA AAT TGC ACC TGT ATT CCC ATC CCA TCA TCC TGG GCT TTC GGA AAP 480
Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Gly Lys
145 150 155 160

TTC CTA TGG GAG TGG GCC TCA GCC CCT TTC TCC TGG CTC AGT TTA CTA 528
Phe Leu Trp Glu Trp Ala Ser Ala Pro Phe Ser Trp Leu Ser Leu Leu
165 170 175

GTC CCA TTT GTT CAG TGG TTC GTA GGG CTT TCC CCC ACT GTT TGG CTT 576
Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu
180 185 190

TCA GTT ATA TGG ATG ATG TGG TAT TGG GGG CCA AGT CTG TAC AGC ATC 624
Ser Val Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Ser Ile
195 200 205

TTG AGT CCC TTT TTA CCG CTG TTA CCA ATT TTC TTT TGT CTT TGG GTA 672
Leu Ser Pro Phe Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
210 215 220

TAC ATT TAA 681
Tyr Ile
225

FIG. 8